

FIG. 1

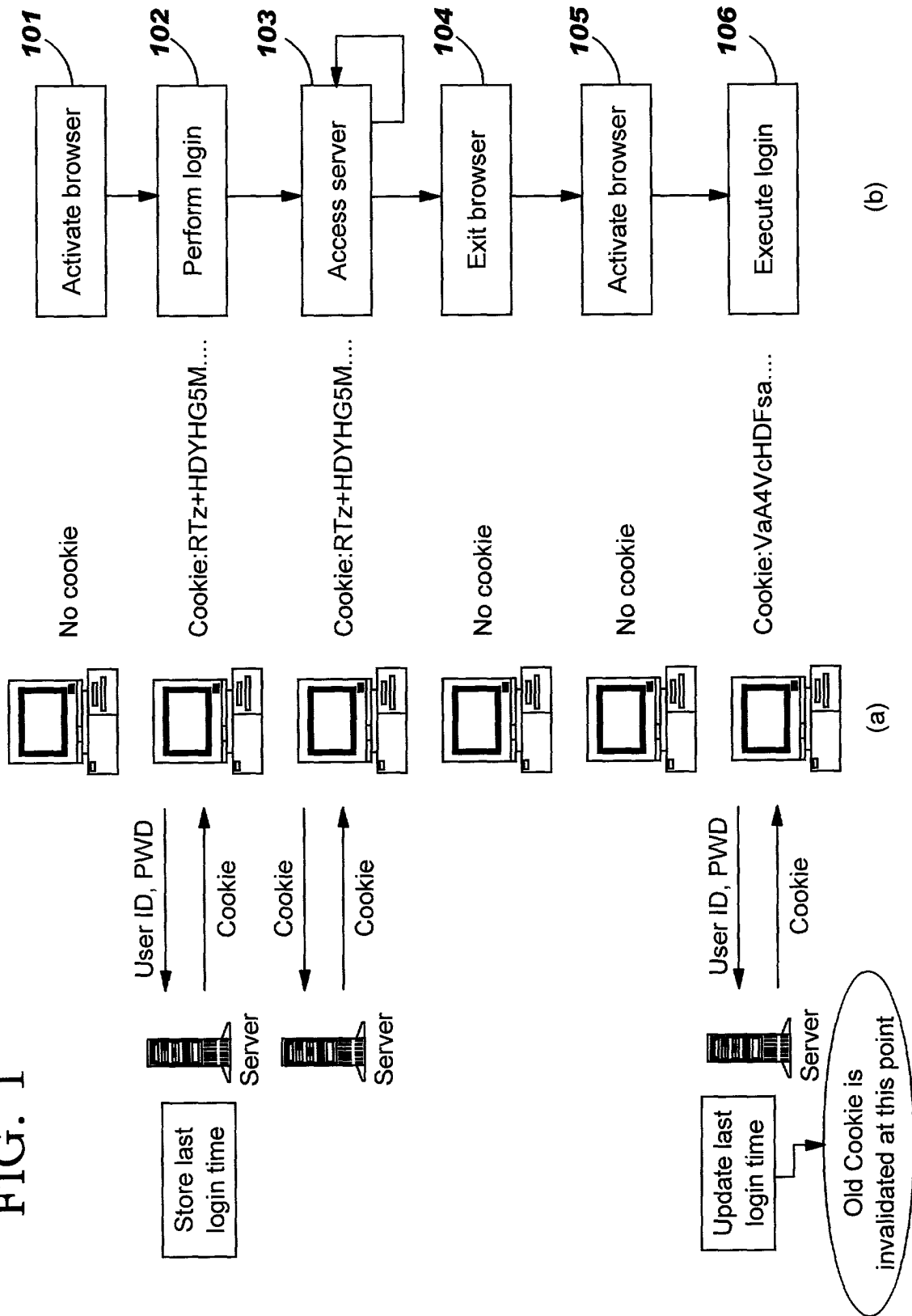
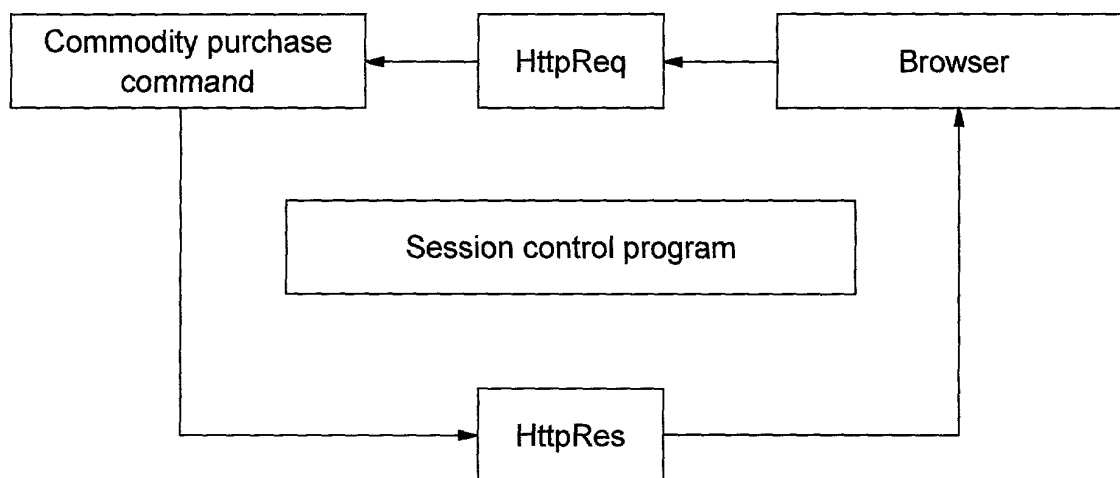


FIG. 2



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FIG. 3

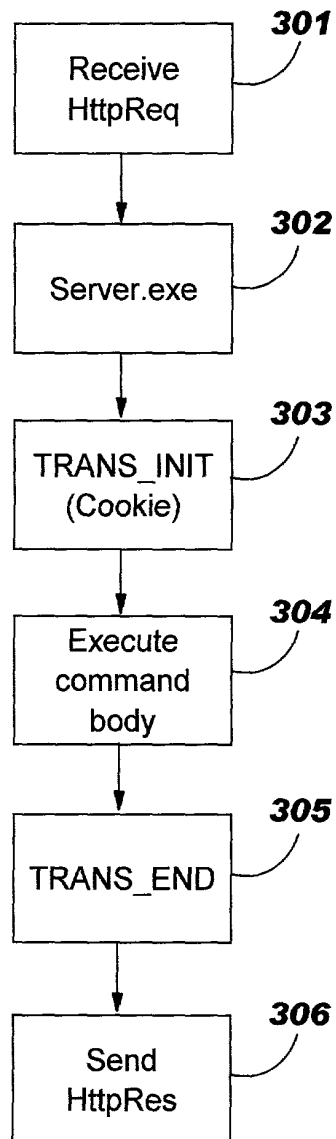


FIG. 4

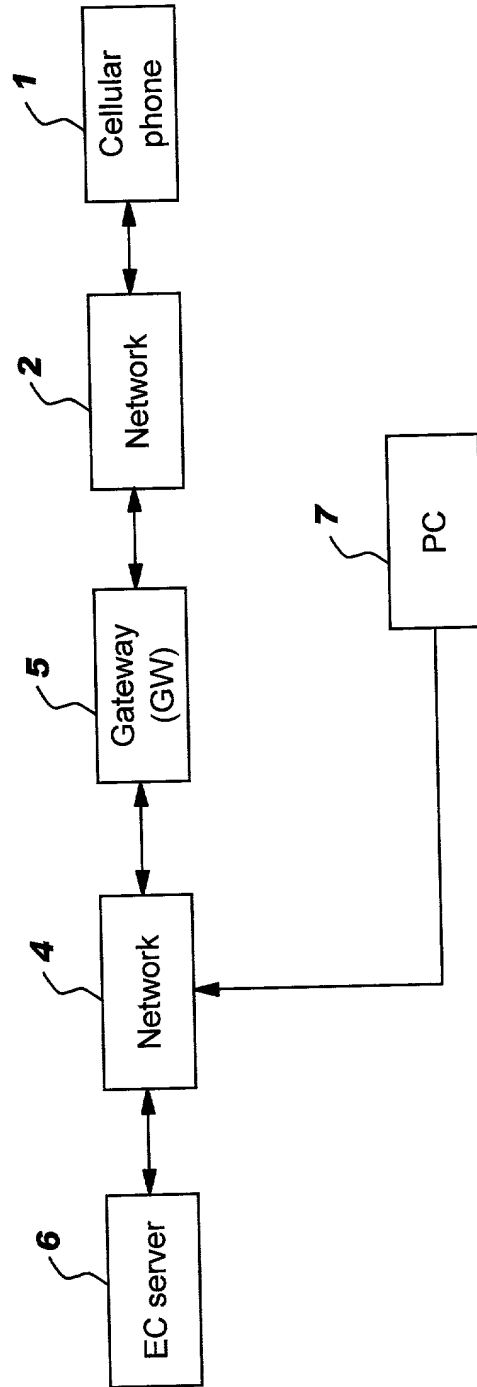


FIG. 5

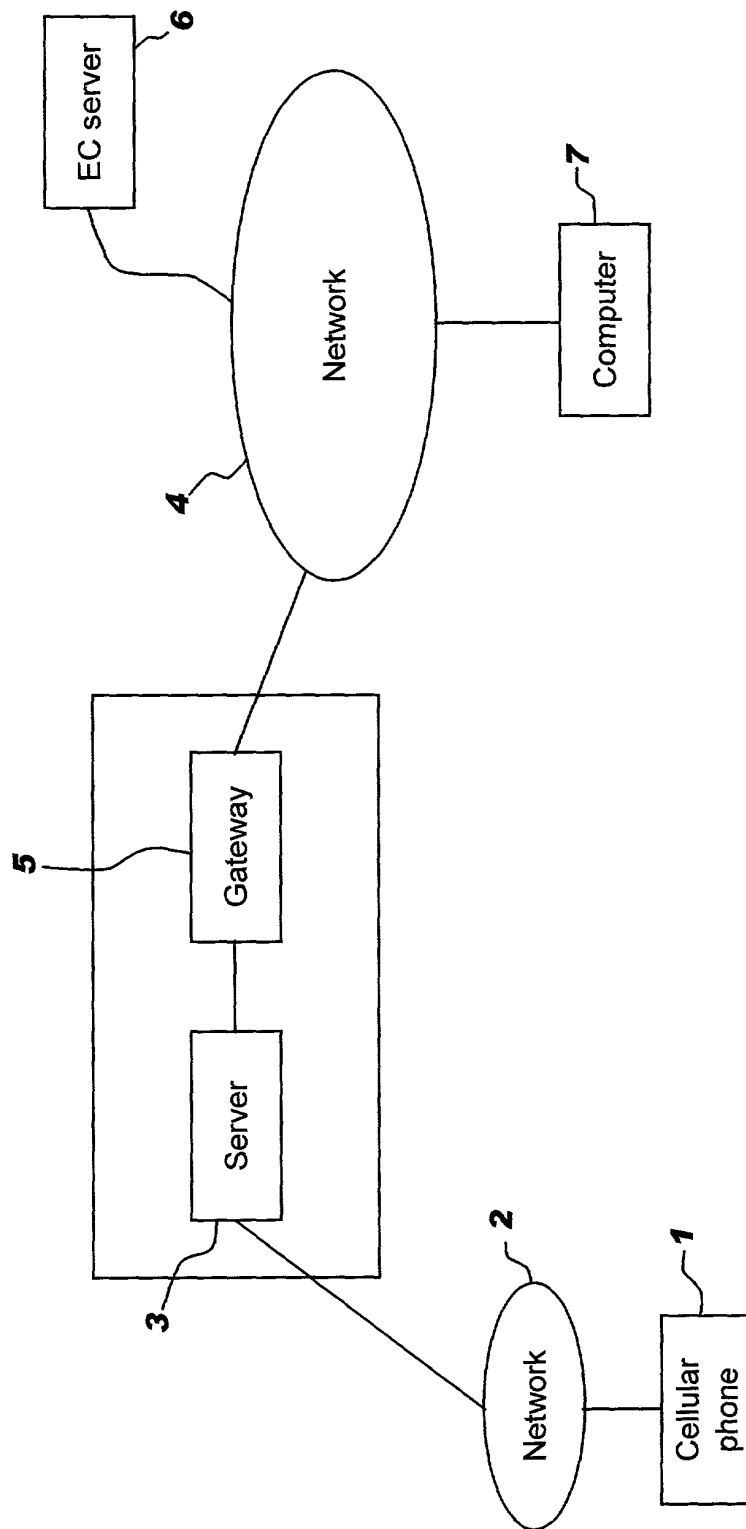


FIG. 6

Request

http://hostname/cgi-bin/some\_cgi/?uid=NULLGWXXXXXX

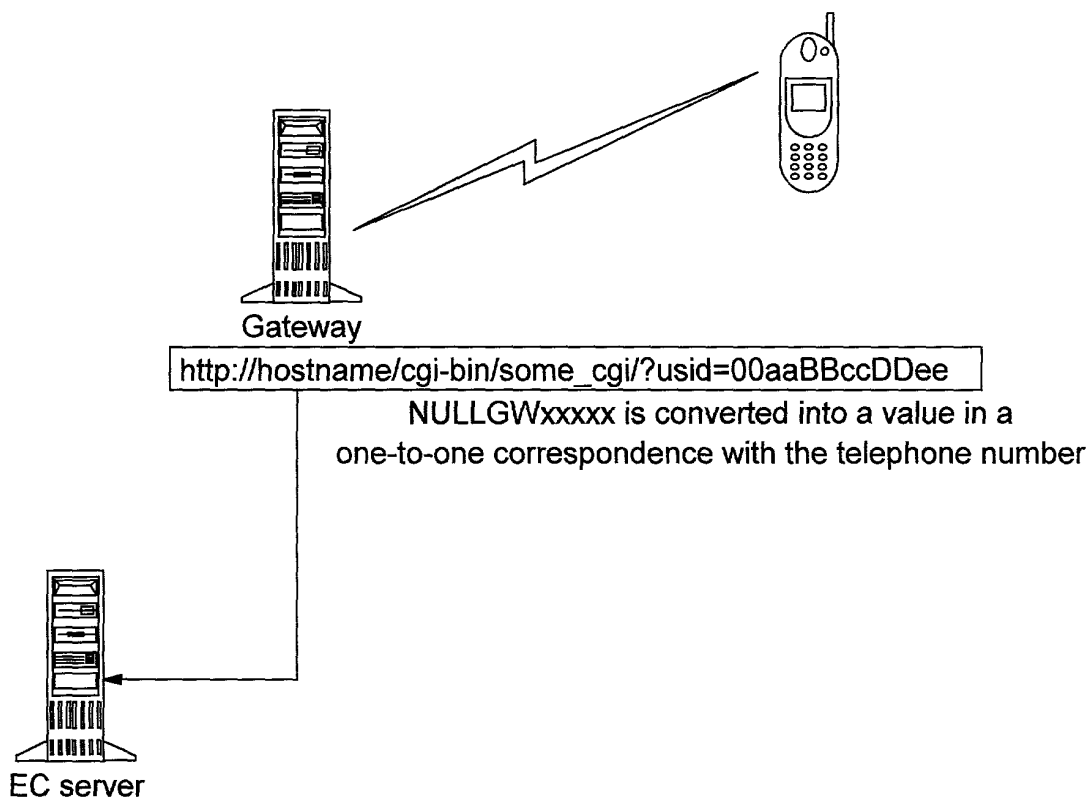
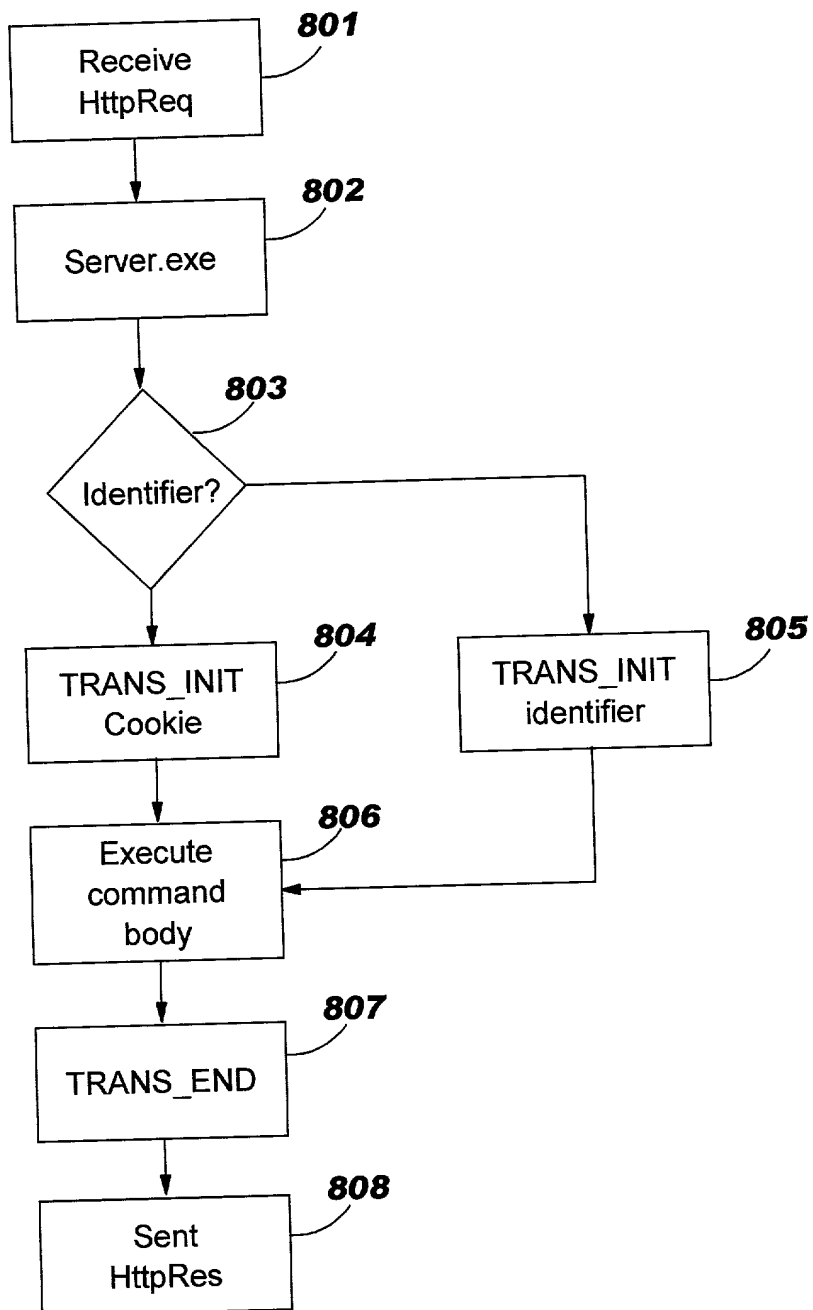


FIG. 7

A	B	C	D	
ID			ID	
PWD			PWD	
Address			Address	
...	...	...	.	.....
Identifier			.	
Status information			.	

FIG. 8



## FIG. 9

//Session control with a static identifier

```
bool TransInit-StaticID(  
    HttpRequest req  
    ) {
```

// The identifier is obtained.

```
String* static_id = req.getStaticID(name_of_static ID;
```

```
if (static_id = NULL {
```

```
    // If the request is from a client sending no identifier, ie. from a conventional browser,  
    return TransInit_Cookie(req) // A conventional routine is used.
```

```
    }  
    // The gateway address is validated.
```

```
    if (!IsValidGatewayAddress(req)) {  
        return false; // The request from the invalid address is rejected.
```

```
    }  
    // Security, the format of the user ID, and other information are checked.
```

```
    if (!VerifySessionInfo()) {  
        return false;  
    }
```

// User information is searched for based on the identifier.

```
User* user= UserTable. LookupByStaticID(static_id);
```

// Transaction is initialized according to the user status.

```
if (user = NULL) {
```

```
    User* temporary_user = User::CreateGuestUser(static_id); // A temporary guest account  
    (many limitations are posed compared with registered users) is created.
```

```
    Server. processRequestsAsGuestUser(Req.temporary_User); // if the user is not registered,  
    the request is processed using a guest authority.
```

```
    } else {  
        if (user.isLoginin()) {
```

```
            Server. processRequestFromRegisteredUser(req.user); // Because the user is  
            logging in, the request is processed using the authority of the user.
```

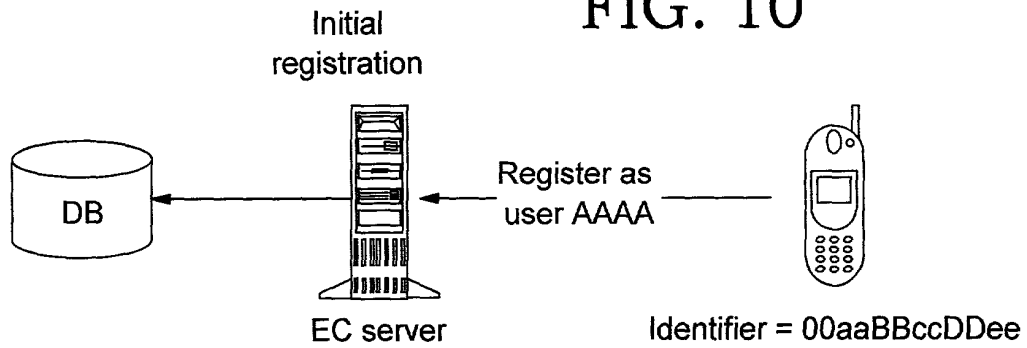
```
        } else {  
            Server. processRequestFromGuestUser(req.user); // Because the user logged out,  
            the request is processed using the guest authority.  
        }  
    }
```

```
}
```

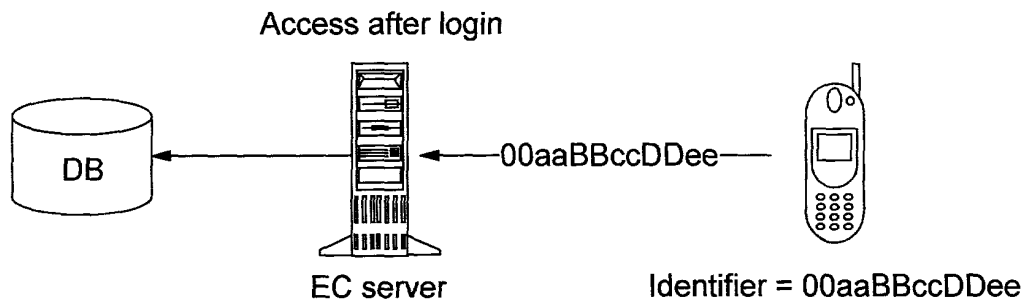
09900265-070601



FIG. 10



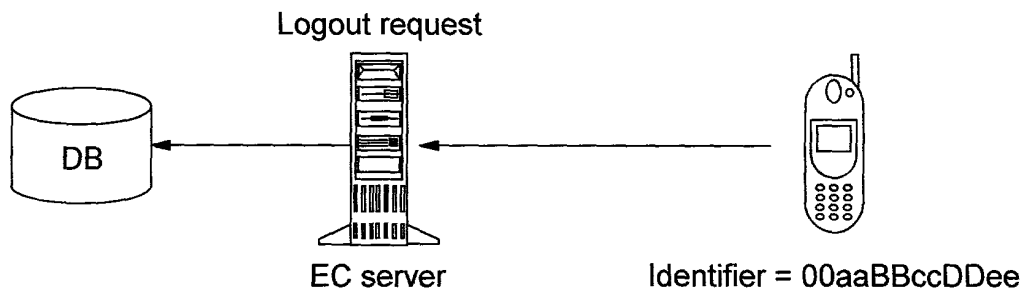
(a)



A user with identifier =  
00aaBBccDDee is searched for

It is found that the terminal with identifier =  
00aaBBccDDee is logging in as user AAAA

(b)



The status of the user with  
identifier = 00aaBBccDDee  
is changed to Logout

(c)

090255 070601  
T09020 0920060

FIG. 11

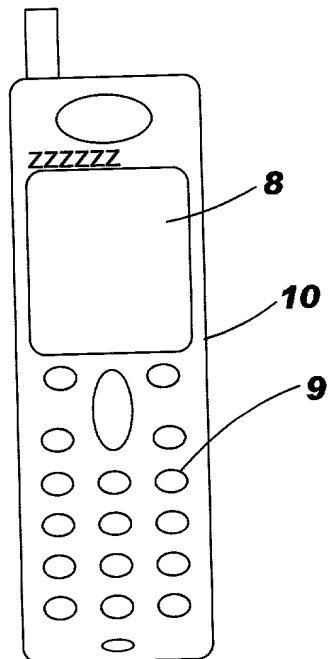
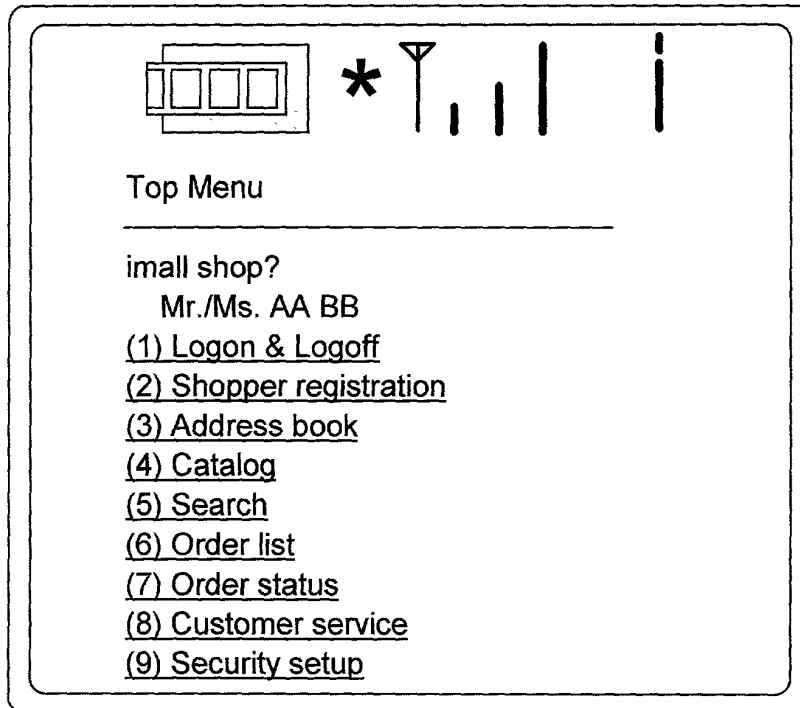


FIG. 12



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FIG. 13

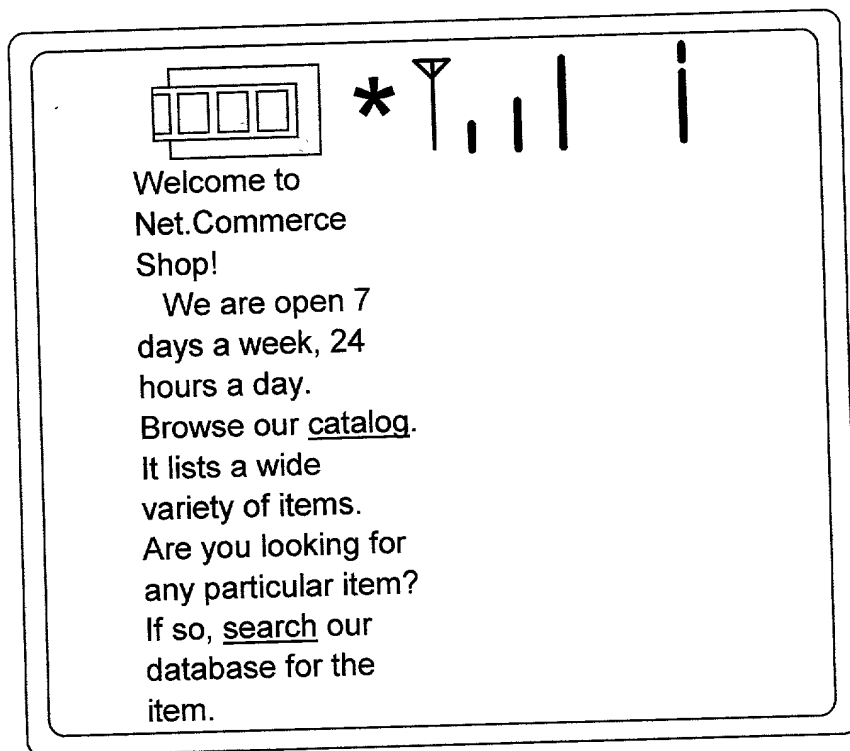


FIG. 13

FIG. 14

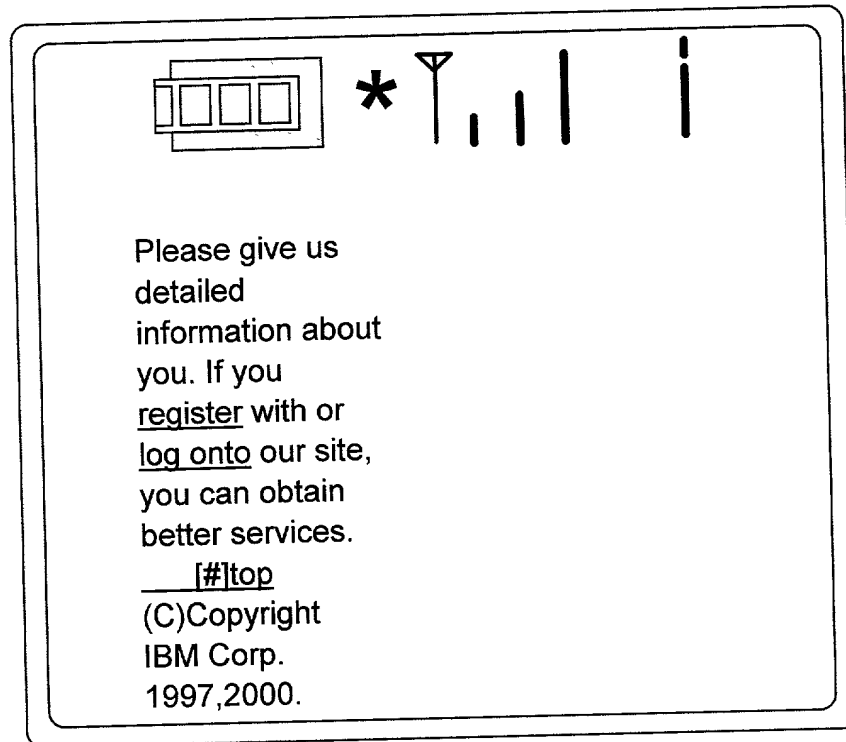
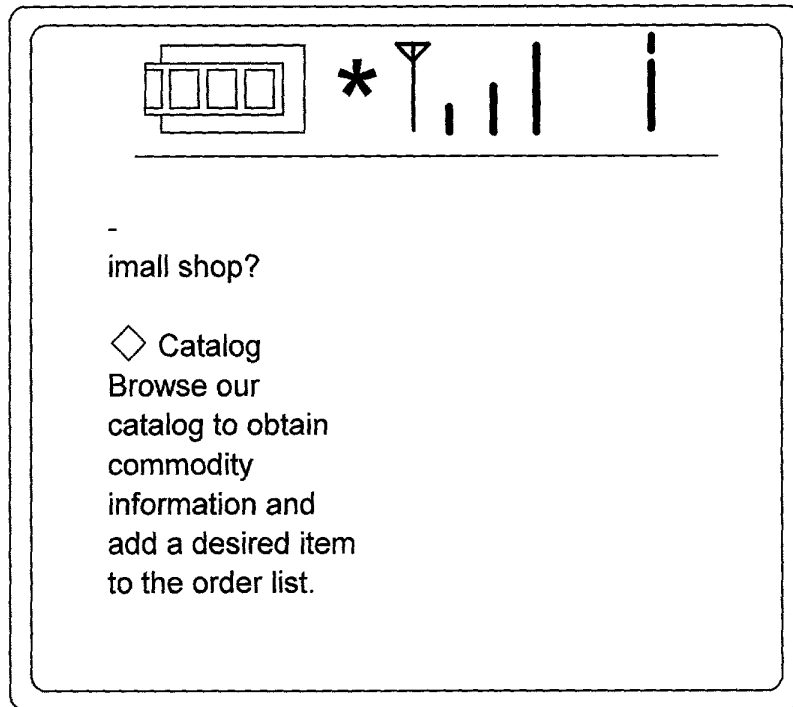
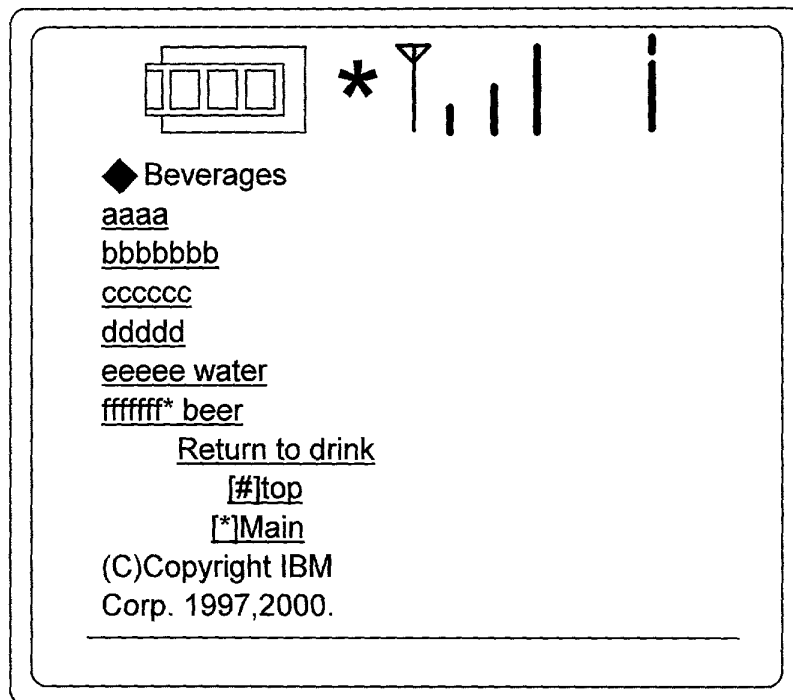


FIG. 14

FIG. 15



(a)





(b)

FIG. 15(a) 15(b)

FIG. 16

(a)

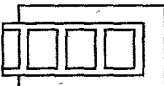

Order List

---

imall shop?



◇ Order List  
Mr./Ms. AA BB  
Total: \$4974  
(exclusive of tax)

(b)

a	1234567676423 4234 234 245345	76423 4234 234 245345
46 3		
a	1234567676423 4234 234 245345	76423 4234 234 245345
46 3		
a	1234567676423 4234 234 245345	76423 4234 234 245345
46 3		
a	1234567676423 4234 234 245345	76423 4234 234 245345
46 3		
a	1234567676423 4234 234 245345	76423 4234 234 245345
46 3		
a	1234567676423 4234 234 245345	76423 4234 234 245345
46 3		

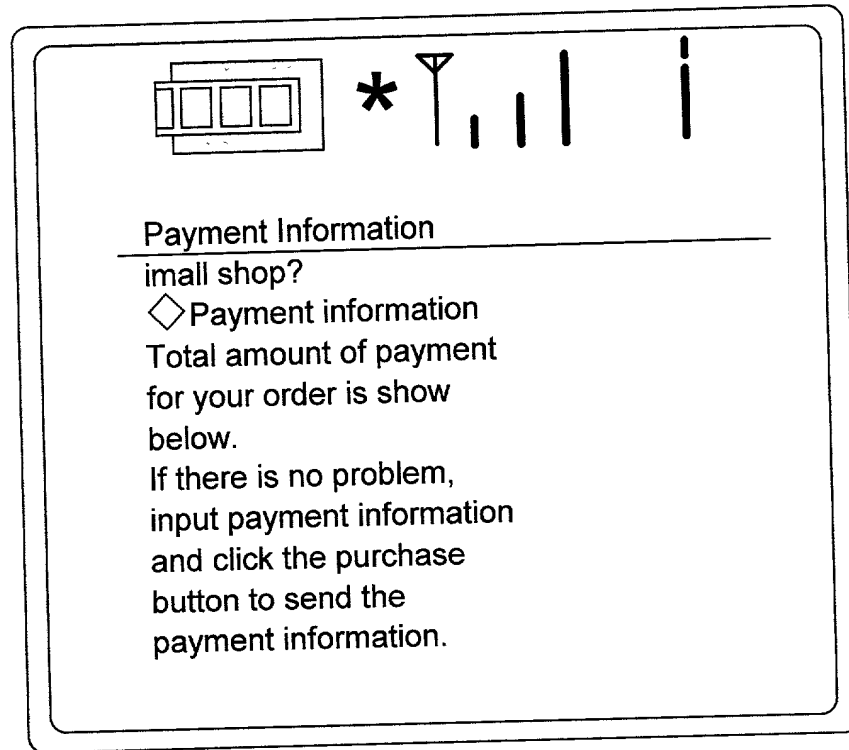
(c)

Remove item  
Send order  
(To next page)  
[4]Catalog  
[#]Top  
[\*]Main  
(C)Copyright IBM  
Corp. 1997,2000.

0900265-07064  
T09020"59200660

FIG. 17



The screen displays a header area with a card icon, an asterisk, a signal strength indicator, and a battery level indicator. Below the header, the text "Payment Information" is underlined. The main content area contains the following text: "small shop?", "◇ Payment information", "Total amount of payment for your order is show below.", and "If there is no problem, input payment information and click the purchase button to send the payment information."

Payment Information

small shop?

◇ Payment information

Total amount of payment  
for your order is show  
below.

If there is no problem,  
input payment information  
and click the purchase  
button to send the  
payment information.

09900265-070604  
T09070-59200660




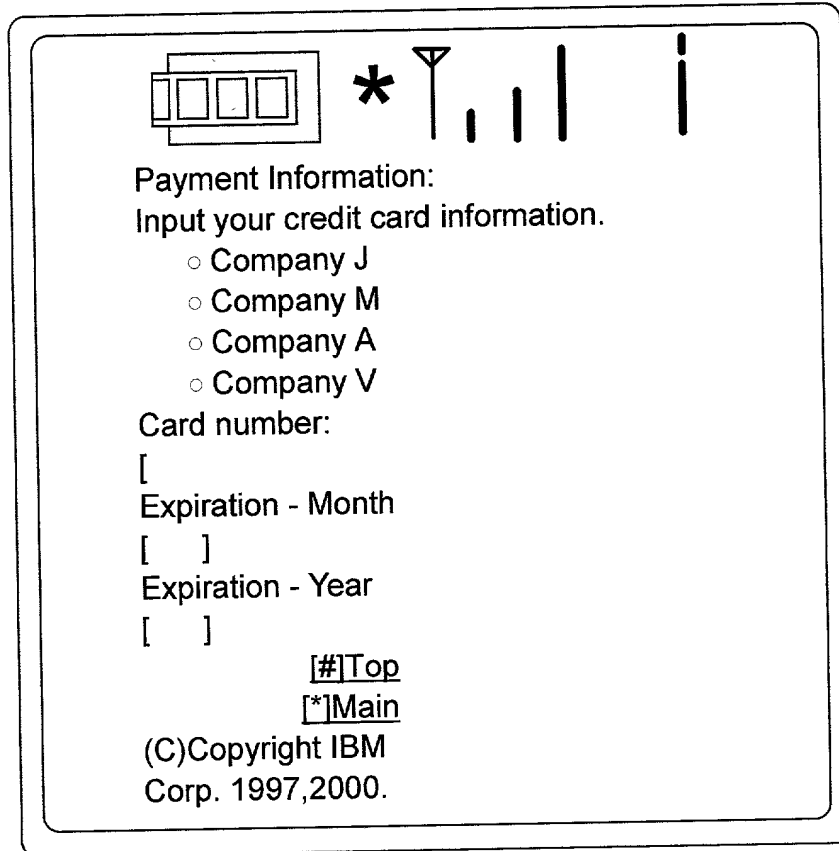
  
 Total for each delivery address  
 Mr./Ms. AA BB  
 Address  
 Select a desired delivery  
 service used for the delivery  
 of your package.  
 Subtotal: \$4974  
 Total tax (5.00%): \$294  
 Delivery charge: \$100  
 by post by home delivery by other means  
 Total: \$5323

FIG. 19



The screen displays a payment information input form. At the top, there is a header area containing a logo (a rectangle with four smaller squares inside), an asterisk, a signal strength indicator (a vertical line with a triangle at the top), and three vertical bars of increasing height. Below the header, the text "Payment Information:" is followed by "Input your credit card information." and a list of four radio button options: "Company J", "Company M", "Company A", and "Company V". Below the list, the text "Card number:" is followed by a bracketed input field. Below the input field, the text "Expiration - Month" is followed by a bracketed input field. Below the input field, the text "Expiration - Year" is followed by a bracketed input field. At the bottom, there are two underlined links: "[#]Top" and "[\*]Main". Below the links, the text "(C)Copyright IBM Corp. 1997,2000." is displayed.

Payment Information:  
Input your credit card information.

- ☐ Company J
- ☐ Company M
- ☐ Company A
- ☐ Company V

Card number:  
[ ]

Expiration - Month  
[ ]

Expiration - Year  
[ ]

[#]Top  
[\*]Main

(C)Copyright IBM  
Corp. 1997,2000.

09900263-070601